VEHICLE TYPE
Conversion Of: Geo Metro
VIN: 2C1MR2466N6766568
Seating Capacity: **2 Adults**
Features: Power Brakes, Front Wheel Drive, Front Disk Brakes & Heater

DIMENSIONS
Wheelbase: 89.4 inches
Track F/R: 54.3/53.8 inches
Length: 148.3 inches
Width: 62.4 inches
Height: 52.0 inches
Ground Clearance: >50 mm
Cargo Space: **Battery Pack Displaces Rear Seat and OEM Cargo Well.**

WEIGHT
Curb Weight: 2560 lbs
Test Weight: 2582 lbs
Distribution F/R: 49/51 %
Conversion GVWR: 2910 lbs
OEM GVWR: 2447 lbs
Payload: **328 lbs**

WHEELS & TIRES
Wheel Size: 13 inch
Tire Mfg: Goodyear Invicta
Tire Size: P175/70R13
Tire Pressure F/R: 44/44 psi
Spare Installed: No

DRIVE SYSTEM
Drive Type: Brush DC
Motor Mfg: Advanced DC Motors
Controller Mfg: Curtis PMC
Transmission: **5 Speed Manual**

BATTERY
Manufacturer: Trojan
Type: **T145 Flooded Lead Acid**
Number of Modules: 13
Total Traction Voltage: 78 Volts
Battery Pack Weight: 923 lbs
Locations In Vehicle: Rear Seat & Trunk

CHARGER
Location: Behind Driver Seat
Input Voltage(s): 120 volts AC
Input Current(s): 13 amperes AC

INTERLOCKS
Key Removable When Off Only: Yes
Key Off In Park Only: **No**
Start In Park Only: **No**
Start Blocked By Accelerator: **No**
Start Blocked On Charge: **No**

REQUIREMENTS
Manual Disconnect Present & Operational: **No**
Batteries Sealed or Valve Regulated: **No**
Charger Automatic Control: Yes
SOC Indicator Present: Yes
Battery Voltage Indicator: **No**
Batttery Current Indicator: Yes
Regenerative Current Indicator: N/R
Transmission Single Speed: **No**
Transmission Parking Pawl: **No**
No Open Access to High Voltage: **No**
All High Voltage Clearly Marked: **No**
Control Efforts Similar To OEM: Yes

Test Date: October 1994
Notes:
Bold - Results did not meet EV America Performance Goal
* - Tested at gross vehicle weight
N/R - No regenerative braking

TEST EXCEPTIONS
Payload 372 lbs less than required
Test weight greater than OEM GVWR
OEM GVWR re-rated by converter (not certified)
Flooded electrolyte batteries
Testing delayed by high battery temperature
Testing delayed by charge times > 8 hours

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PERFORMANCE STATISTICS

ACCELERATION AT 90% SOC *
Zero to 30 mph: 8.7 sec
Zero to 40 mph: 15.3 sec
Zero to 50 mph: 17.7 sec
Zero to 60 mph: **35.5 sec**
Performance Goal: 13.5 seconds; 0 to 60 mph

ACCELERATION AT 50% SOC *
Zero to 30 mph: 9.4 sec
Zero to 40 mph: 16.5 sec
Zero to 50 mph: 26.0 sec
Zero to 60 mph: **43.0** sec
Performance Goal: 13.5 seconds; 0 to 60 mph

MAXIMUM SPEED
At 50% SOC: **67 mph**
Performance Goal: 70 mph

CONSTANT SPEED RANGE
45 mph Distance: 88.4 miles
45 mph Energy Used: 14.5 kWhr
45 mph Efficiency: 0.164 kWhr/mile
45 mph Specific Energy: 0.0157 kWhr/lb
60 mph Distance: 51.6 miles
60 mph Energy Used: 11.3 kWhr
60 mph Efficiency: 0.219 kWhr/mile
60 mph Specific Energy: 0.0122 kWhr/lb

DRIVING CYCLE RANGE
77°F Distance: **49.50 miles**
77°F Energy Used: 11.64 kWhr
77°F Efficiency: 0.235 kWhr/mile
77°F Specific Energy: 0.0126 kWhr/lb
19°F Distance: **33.20 miles**
19°F Energy Used: Not Measured
19°F Efficiency: Not Measured
19°F Specific Energy: Not Measured
Performance Goal: 60 miles

GRADEABILITY*
Maximum Grade: 42%
Performance Goal: 25%
Speed At 3% Grade: 56 mph
Performance Goal: 55 mph
Speed At 6% Grade: **42 mph**
Performance Goal: 45 mph

HANDLING COURSE
Avg Time @ 90% SOC: 60.9 sec
Avg Time @ 50% SOC: 61.3 sec
Avg Time @ 20% SOC: 64.5 sec
Avg Dodge Neon (ICE) Time: 54.62 sec
Average Chevrolet S-10 Time: 58.29 sec

BRAKING STABILITY
Controlability: No Stability Problems
Distance Dry/Wet: 177.2/272.8 feet

CHARGER
Ground Current During Charge: 3 mA
Battery Leakage Current: 0.01 mA
Charger Efficiency: 93 %
Average Power Factor: **0.54**
Performance Goal: 0.95
Average THD: **91.1 %**
Performance Goal: 5%
Time From 80% DOD: **10 hours 40 minutes**
Performance Goal: <8 hours